

## ABSTRACT

A device or a method to realize virtual cycling: the method includes simulated motion, rotary wheel inspection, speed detecting and dynamic scene display; the said simulated motion include auto damp adjustment which is applied on resistance varying with the said scenes. The said equipment include bicycle, direction detector fixed on faucet devices for direction sense purpose, the speed detector fixed on pedal devices and damp force device, computer system and display system connected with the above three devices which is applied in data conducting, virtual scene and resistance adjusting signal output. The above two detectors are provided with sensors; the damp device has a generator with a convertible interior magnetic field. The virtual bicycle and cycling method as defined in the afore said invention bring full fun of striding over different scenes, as well as a kind of exercise effect.